

LVENING SKY/VI AP FOR SEPTEMBER SEPT. MOON PHASES. FIRST Q'TR. SEPT. 7. FULL MOON, SEPT. 15 LAST Q'TR. SEPT.23 N. MOON, SEPT. 30. FACE SOUTH AND HOLD THE MAP OVER THE ARROW THROUGH THE TWO STARS IN THE BOWL OF THE BIG DIPPER YOUR HEAD-THE TOP MORTH AND YOU WILL SEE POINTS TO THE NORTH STAR. THE STAR AT THE END OF THE HANDLE OF THE LITTLE DIPPER. THE STARS AND PLANETS JUST AS THEY APPEAR IN THE HEAVENS Openns

Moon Will Be in Eclipse on

Cygnus marked by the striking figure of the "northern cross." The milky way is also very bright where it dips toward the southern horizen between Scorpio and Sagittarius. In the northern part of the sky it appears most of literal power of 25 diameters on a three-inch telescope will reveal clouds upon clouds of glittering stars so small and so innumerable that they resemble diamond dust strewn upon a black background. Here and there the milky way gathers in knots and spirals which are wenderthe Morning of the

14th at 3 Oclock.

NE of the glories of the September sky is the vast arch of the milky way, spanning the heavens from the northeast to southwest. Some of its richest portions are seen.

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the Great Square of Pegasus is common to the two constellations Pegasus and Andromeda. In reality, however, it should be assigned to Andromeda alone, and it is counted for Pegasus simply because it serves to complete the figure of the "Square." Alpheratz is represented in the old constellation figures, such as those frawn by the celebrated German artist, Albrecht Durer, for Flamsteed's "Celestial Atlas," as shining in the forehead of Andromeda. It is a star of the second magnitude. Two other stars of the same magnitude form a line with it, stretching downward toward the horizon, the first of these in Andermeda's girdle and the second in her foot.

Between Andromeda and the pole is Cassiopeia, and below her feet in the northeast appears Persus. The story of these constellations is one of the most interesting instances of the connection between ancient mythology and the imaginary figures in the starry heavens. Andromeda represents the beautiful daughter of Cassiopeia, queen of Ethiopia, who was chained to a rock by the seaside to be devoured by a sea monster as a punishment for for her mother Cassiopeia, who had boasted herself fairer than the sea nymphs. According to the fable she was rescued by the hero Perseus who froze the sea monster into stone by presenting hefore its eyes the head of the snake tressed Gorgon, which he had cut off. A curious fact in connection with this legend is that attached, as it were, to the constellation Peseus is a small group of stars comprising one of the most wonderful objects in the heavens. Algol, this star, whose postion is clearly indicated on the chart, varies, in a period of less than three days to such a degree that it is at certain periods several times brighter than at others. The changes take place in regular order, giving to the star the look, as has been somewhat fancifully said, of "a slowly winking eye." The word "Algol" in Arabic means "The Demon," and it is at least a curious coincidence that so strange an object should be attached to the constellation Parseus, whe

call the story of that constellation, as

The sun enters the zodiacal sign Libra, and the astronomical autumn be-gins at 10:45 oclock on the morning of the 23d. This is called the autumnal equinox and the position of the sun at this epoch is indicated on the chart by the crossing of the lines of the equator and the ecliptic at the figures 180. The ecliptic being the apparent 180. The ecliptic being the apparent path of the sun through the heavens, the reader will notice that after passing the atumnal equinox his course will lie constantly below or south of the equator, until he returns into the northern hemisphere after six months at the crossing point on the opposite side of the chart known as the vernal equinox. When the sun is at either of the two equinoxes day and night are of equal length all over the world. As he descends south of the equator the night begins to exceed the day in length in the northern hemisphere.

The Planets for September. The milky way may serve us on this occasion as a sort of highway dividing the visible constellations into two great fields. Five stars usually ranked as the first magnitude are visible. great fields. Five stars usually ranked as the first magnitude are visible, namely, Arcturus in Bootes, now low in the west; Vega in Lyra, high overhead; Altair in Aquila; Formalhaut in Pisces Australis and Capells in Auriga which is just rising far round in the northeast. Of these five, three are in reality much brighter than a standard first magnitude star; they are Capella, Vega and Arcturus. Every one of them is not only a very bright object in the sky, but also a much larger sun than ours.

The Milky Way,

only a very bright object in the may, but also a much larger sun than our exceeding it, perhaps, not less than a thousand times in light-giving power. Each may be the center of a vast sys-tem of planets. But Capella is double,

tem of planets. But Capella is double, composed of two enormous sums close together, a fact which introduces many complications from the point of view of an attendant planetary system.

The readers will observe that the "Great Dipper" in Ursa Major, has now descended below the pois in the northwest while Cassiopeia, opposite to it, has attained a comparatively great elevation in the northeast. It is always interesting to watch the "balancing" of these two constellations, which stem to play at see-saw, with the Pois Star

to play at see-saw, with the Pole Star for their pivot. Prominent Planets.

The Planets for September.

The Planets for September.

Mercury will be too close to the sun throughout the month for observation.

Venus is still a morning star rising at 3 a. m. on the first, at 3:20 a. m. on the 15th, and at 4 a. m. on the 30th.

Mars is only 5 degrees east of Saturn in Taurus on the first and both planets will rise about midnight on that date. By the last of the month Mars will have moved about 17 degrees eistward and will then rise about 11 p. m. and Saturn an hour earlier, both planets having passed into the evening sky.

Jupiter is still the most striking object in the evening sky and advantage should be taken of this very favorable opportunity by all having telescopes to study this giant planet and its most inte-ettic; group of satellites.

Uranus is well placed for observation this month in Capricornus, and attention is called to the article under the beading "Uranus" in which detailed directions are given for locating it. It is due south about 10 p. m. on the first; 9 p. m. on the 15th, and 3 p. m. on the 30th.

Neptune is still a morning star the Neptune is still a morning star in

Andromeda is now becoming con-spicuous in the west and northwest. The reader will observe that the star Alpheratz at the northeast corner of Ther Total Eclipse of the Moon. There will be a total eclipse of the

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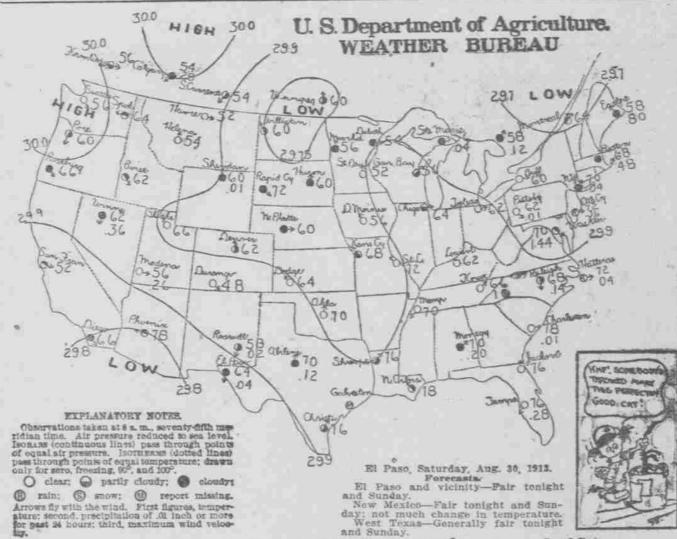
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moon on September 15th; the moon setting at Washington as the eclipse begins. The beginning will be generally visible in North America except the extreme northern portions, the Pacific ocean, Australia and eastern Asia; the ending visible generally in Alaska, the Pacific ocean, except the eastern portions, Australia and Asia. It will be partially visible in the Rocky mountain region (El Paso and vicinity), entering the shadow at 3.52.5 a. m., in total eclipse at 5:10, and will remain in eclipse until after it sets.

On September 23-30 there will be a partial eclipse of the sun visible only in Madagascar and the southeastern portions of Africa.

Uranus. Tranus.

The planet of Uranus is of the sixthnagnitude and with exceptionally clear skies is a naked eye object, but cannot be distinguished from the sur-counding stars unless one knows where o look for it.

As it is well placed this month for observation in Capricornus a small map showing its relation to a group of nearby stars has been inserted on the map as an aid to those who may desire to locate it. The three stars forming the triangle there shown appear to the naked eye as a closely grouped cluster below Alpha and Beta in Capricornus, being about as far below as the distance shown between Alpha and Beta, and nearly in a straight line from them. Under the magnifying power of the telescope they are separated more clearly, and appear in a well defined triangular formation, the uppermost one with 30 power, showing as a double star. On a line with the two stars forming the western side of the triangle, below and slightly to the east, at about the distance shown between Alpha and Beta will be found Uranus. An opera glass or field glass will show it well.

Statistics Regarding Uranus. As it is well placed this month for

Statistics Regarding Uranus The following statistics regarding he planet will be of interest at this he planet will be of interest at this ime. Uranus is \$2,000 miles in diameter and is at the enormous distance of 1,800,000,000 miles from the sun, fround which it revolves in \$4 years that four satellites which are renarkable for the fact that they renarkable for the fact that

noon on September 15th; the moon set-ing at Washington as the eclipse be-ths. The beginning will be generally isible in North America except the extreme northern portions the Pacific extreme northern portions the Pacific

Sept. 10, 8 p. m.—Saturn at quadra-ure with the sun.

Sept. 11, 5 a. m .- Venus in ascending ode. Sept. 11, 3.85 a.m.—Uranus and moon conjunction. Uranus north three n conjunction. Uranus north three legrees \$5 min.
Sept. 14, 3:52 a. m.—Total eclipse of he moon, beginning; visible at £1 Sept. 16, 8 a. m.—Mercury in superior on unterior with sun. Sept. 18, 4 a. m.—Mars in ascending Sept. 22, 8:54 a. m.—Saturn and moon a conjunction. Saturn south six derees 59 min. Sept. 23, 8:45 a. m.—Sun enters Libra. Autumn commences, Sept. 23, 5:14 p. m.—Mars and moon in conjunction. Mars south five despecial six min.

Sept. 25, 4:59 p. m.—Neptune and moon in conjunction. Neptune south live degrees.

Sept. 27, 1:26 p. m.—Venus and moon n conjunction. Venus south one desept. 29—Partial eclipse of sun in-Sept. 29—Partial eclipse of sun in-visible at El Paso. Sept. 30, 5 p. m.—Saturn stationary. Sept. 30, 5:54 p. m.—Mercury and Sept. 30, 5:54 p. m.—Mercury north moon in conjunction.

Moon Phases. Sept. 7. 6:16 a. m.—First quarter. Sept. 15. 9:11 p. m.—Full moon. Sept. 23. 5:39 a. m.—Last quarter. Sept. 30, 10:06 p. m.—(29th) new

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terday, mamma."

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